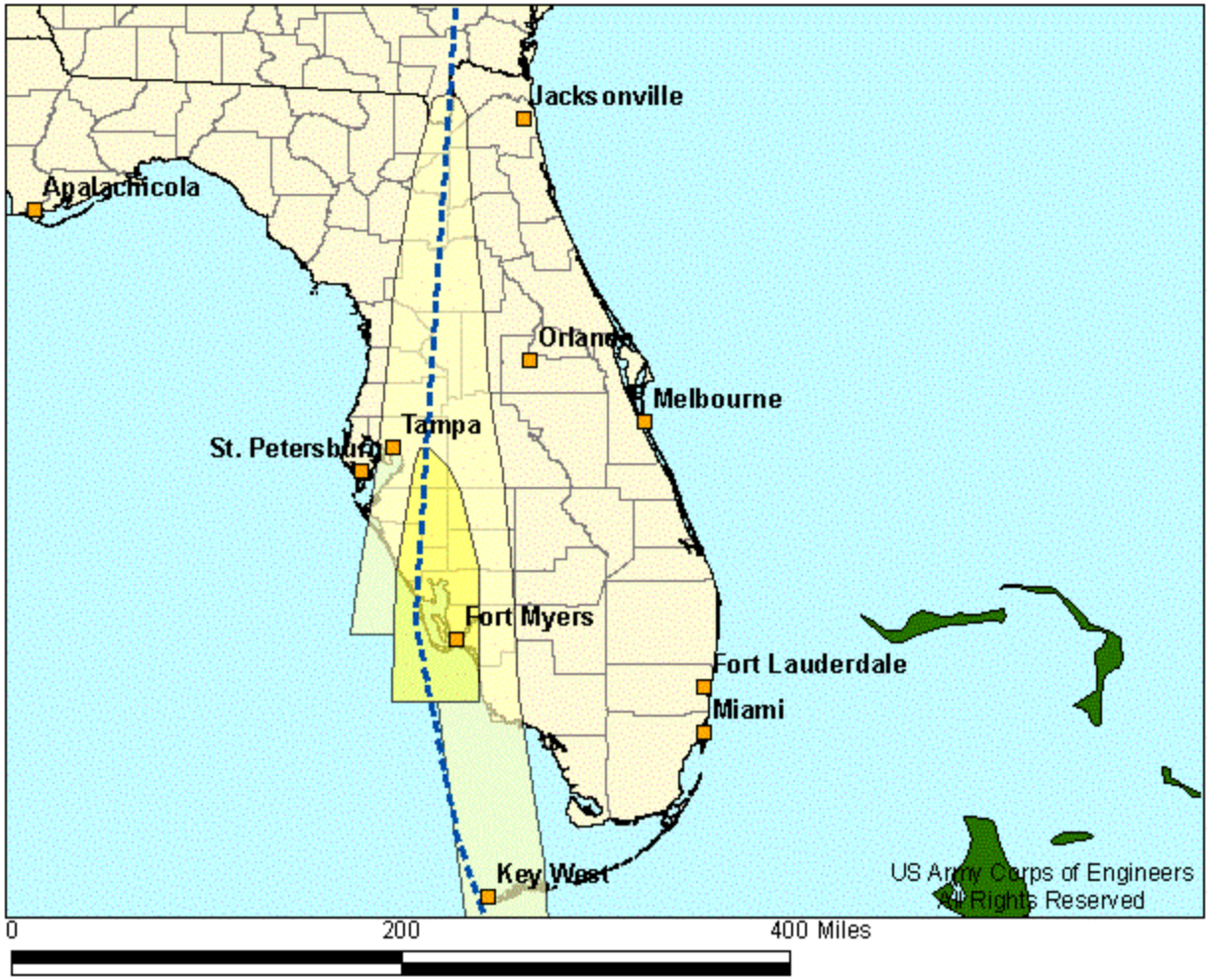
US Army Corps of Engineers

Hurricane Fay Projected Damage Areas

Landfall Expected In About 36 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

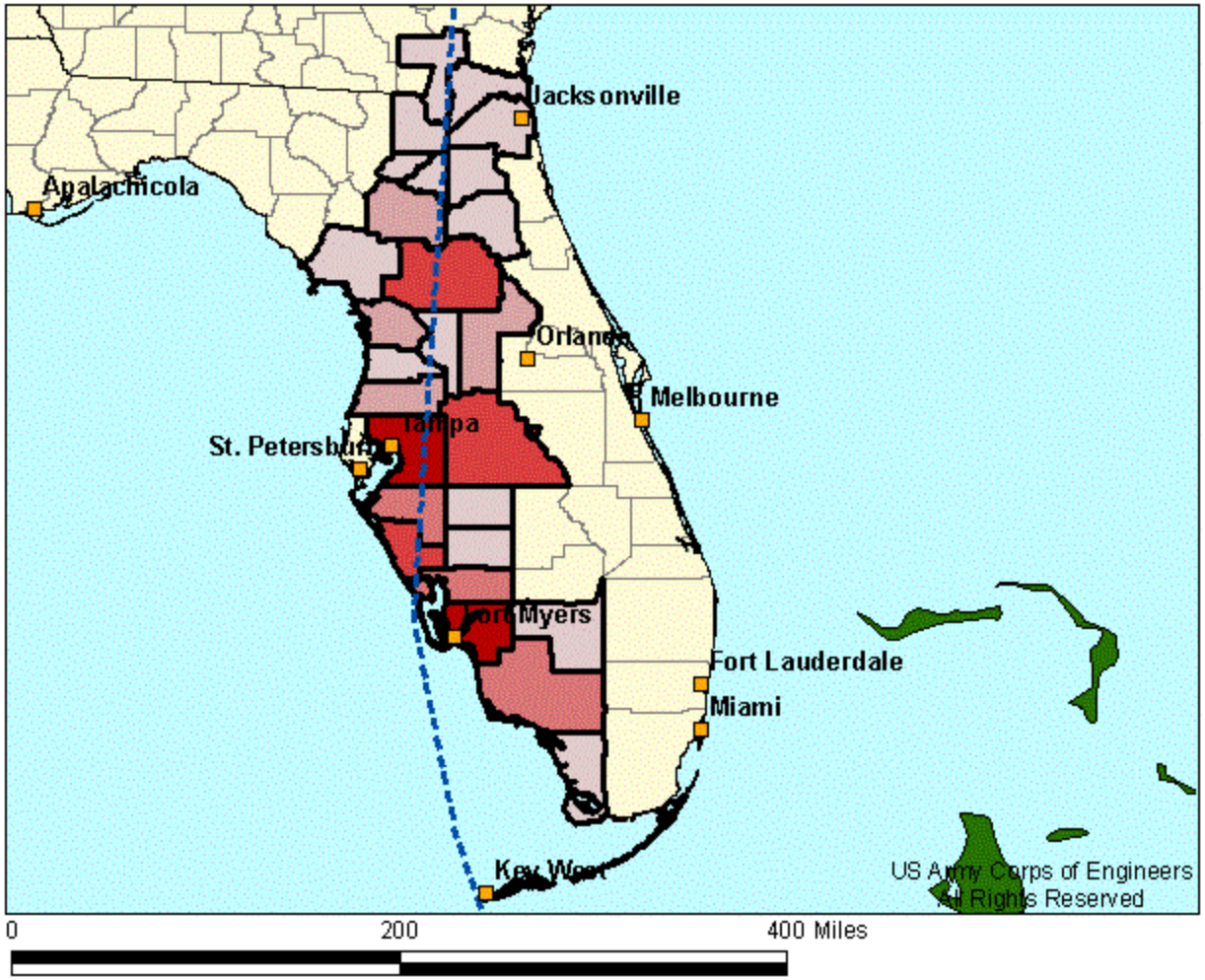
Hurricane Fay Projected Damage Areas	
Generated By: Siemsen, LRL 0730 EDT 08/18/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 18

US Army Corps of Engineers

Hurricane Fay Debris Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Florida - 7,305,000 Yards
Georgia - 3,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Debris Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Debris Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Florida		Alachua	171,000
		Baker	26,000
		Bradford	26,000
		Charlotte	469,000
		Citrus	124,000
		Clay	38,000
		Collier	449,000
		DeSoto	59,000
		Duval	8,000
		Hardee	41,000
		Hendry	< 1,000
		Hernando	85,000
		Hillsborough	1,546,000
		Lake	180,000
		Lee	1,428,000
		Levy	5,000
		Manatee	401,000
		Marion	527,000
		Monroe	67,000
		Nassau	6,000
		Pasco	200,000
		Polk	636,000
		Putnam	20,000
		Sarasota	702,000
		Sumter	89,000
		Union	2,000
Florida	7,305,000		
Georgia		Charlton	3,000
Georgia	3,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Fay Debris Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

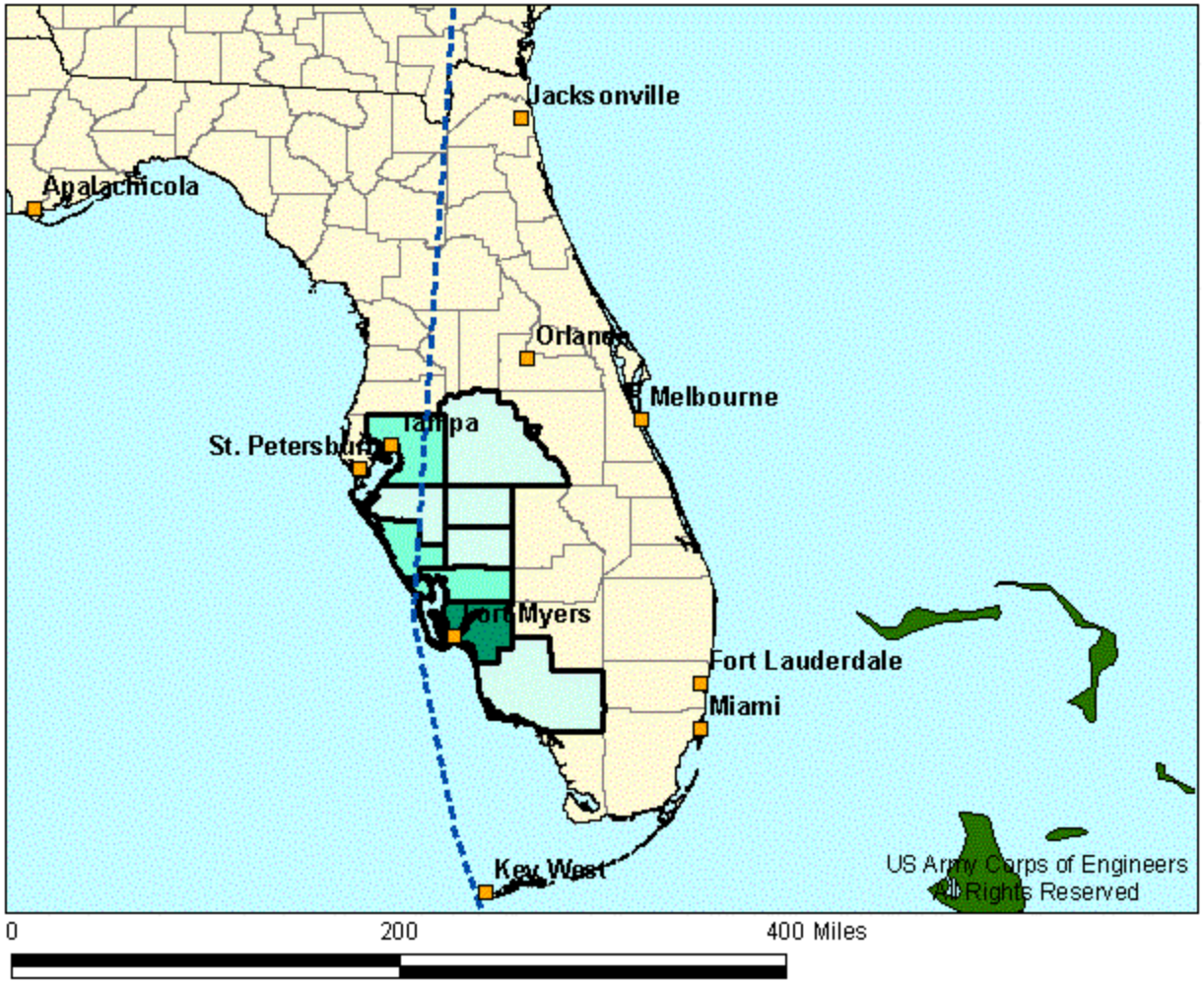
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Commodities Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Florida – 45/45/45 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC ***(0700 EDT 08/18/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Commodities Model	
Generated By: Siemsen, LRL 0730 EDT 08/18/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 18

US Army Corps of Engineers

Hurricane Fay Commodities Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Florida		Charlotte	8
		Collier	1
		DeSoto	1
		Hardee	1
		Hillsborough	5
		Lee	21
		Manatee	1
		Polk	1
		Sarasota	6
Florida	45		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Commodities Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

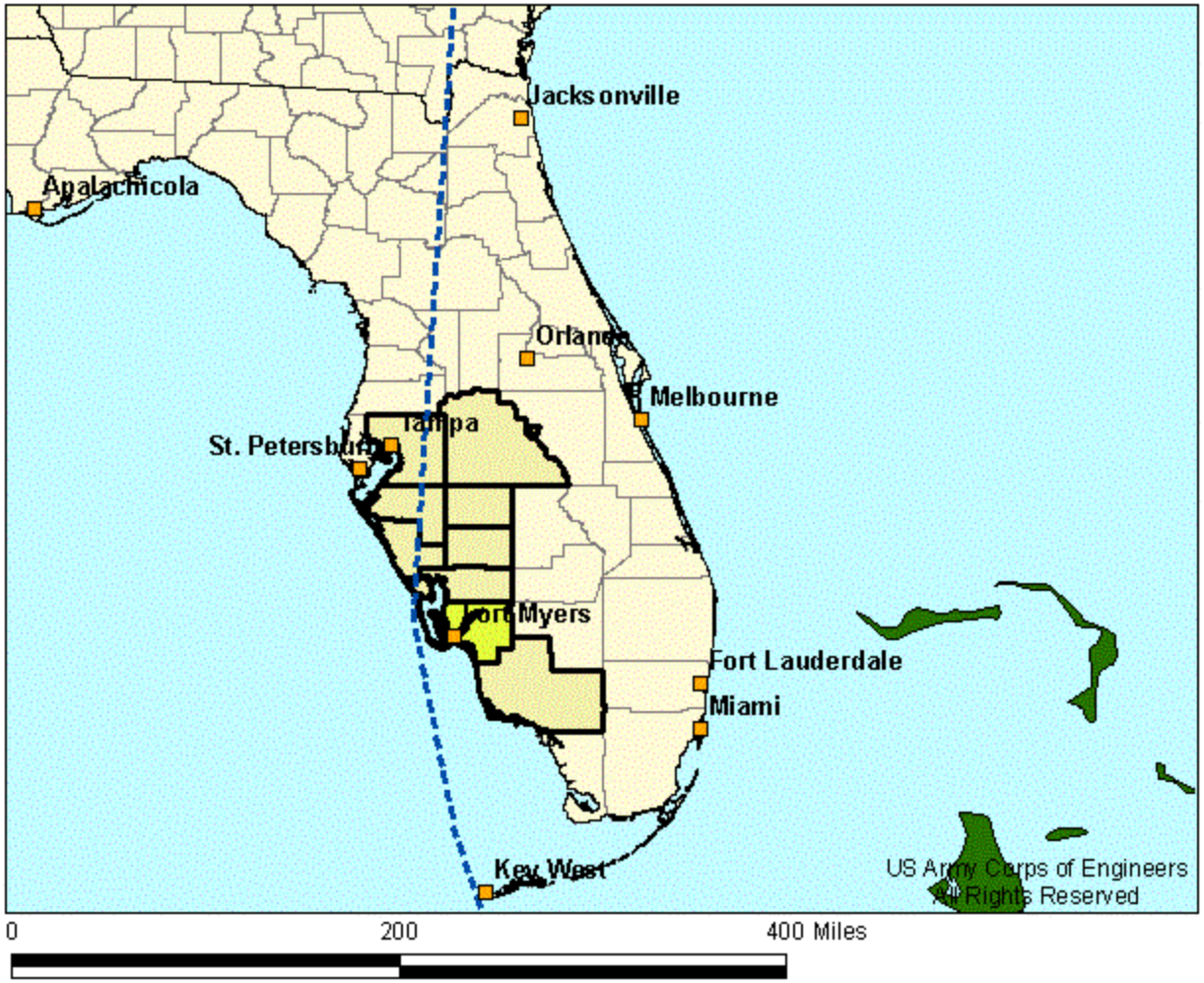
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Fay Temporary Roofing Model

Landfall Expected In About 36 Hours

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Florida - 6,900

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast. Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 6 of 18

US Army Corps of Engineers

Hurricane Fay Temporary Roofing Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Florida		Charlotte	1,400
		Collier	< 100
		DeSoto	200
		Hardee	< 100
		Hillsborough	600
		Lee	3,700
		Manatee	< 100
		Polk	< 100
		Sarasota	1,000
Florida	6,900		

Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Roofing Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

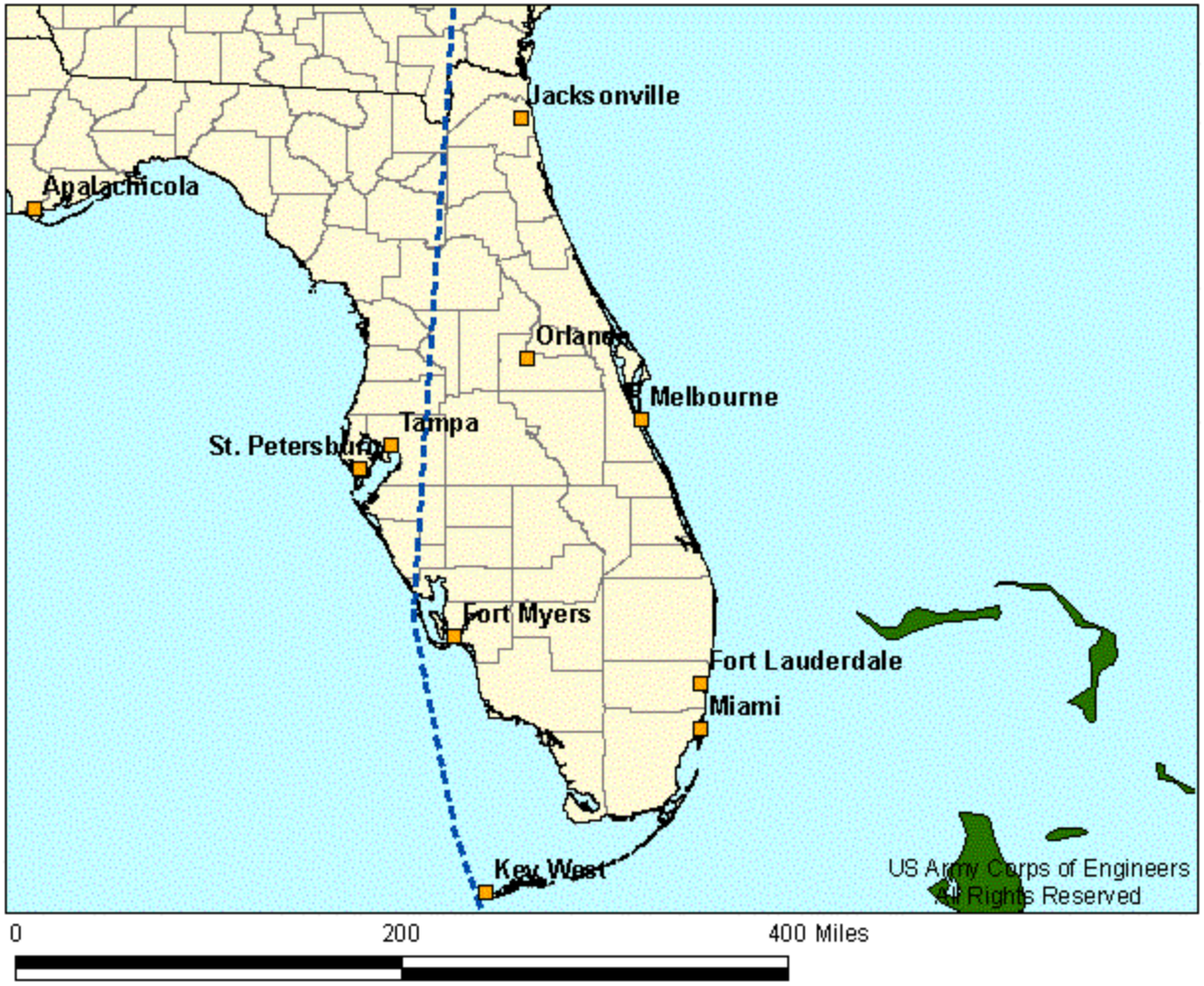
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Fay Temporary Housing Model

Landfall Expected In About 36 Hours

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

None Expected

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast. Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 18

US Army Corps of Engineers

Hurricane Fay Temporary Housing Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County

Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Housing Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

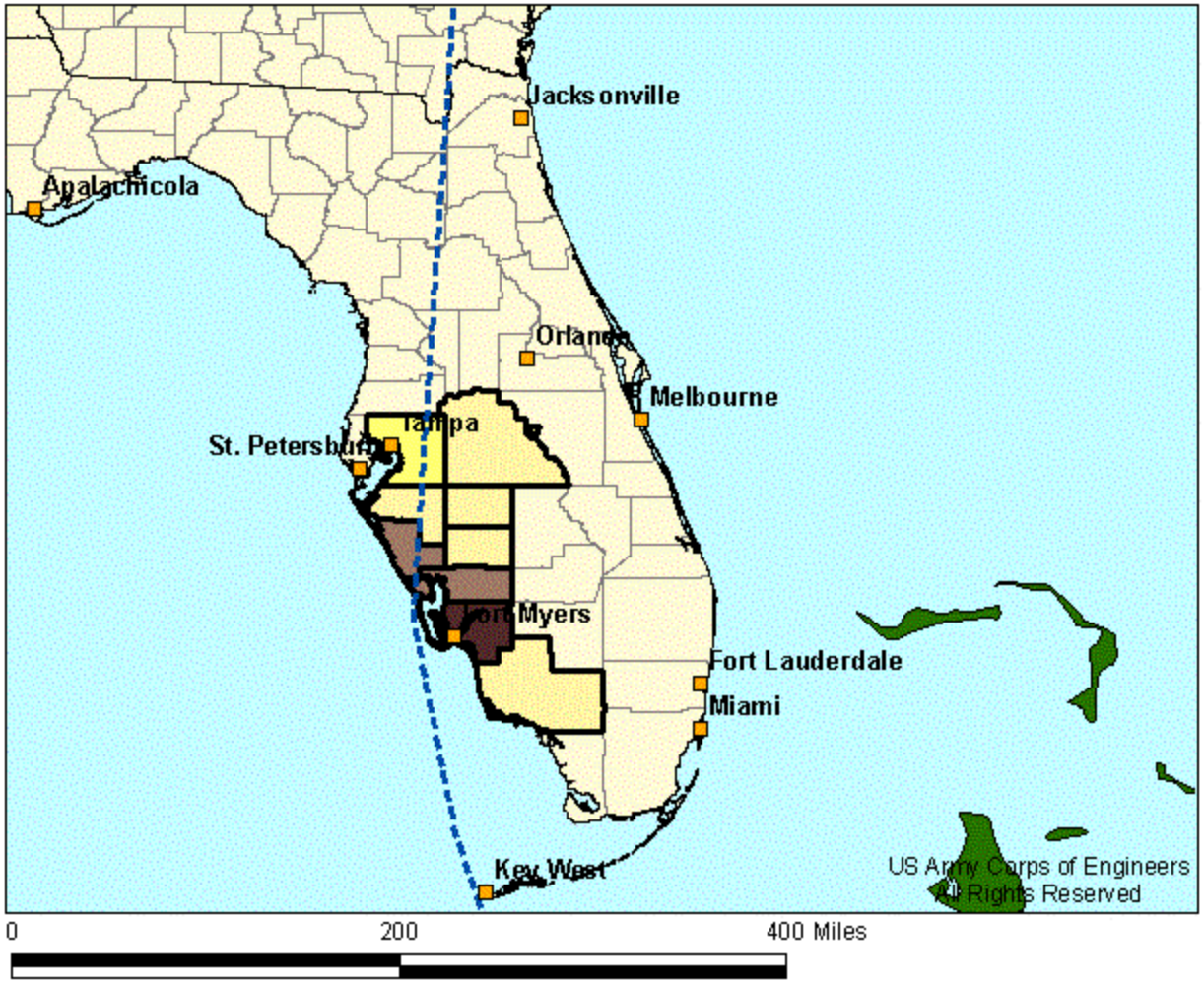
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Population Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Florida - 797,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 18

US Army Corps of Engineers

Hurricane Fay Population Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Florida		Charlotte	151,000
		Collier	3,000
		DeSoto	17,000
		Hardee	10,000
		Hillsborough	84,000
		Lee	416,000
		Manatee	12,000
		Polk	< 1,000
		Sarasota	104,000
Florida	797,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Population Model

Generated By:
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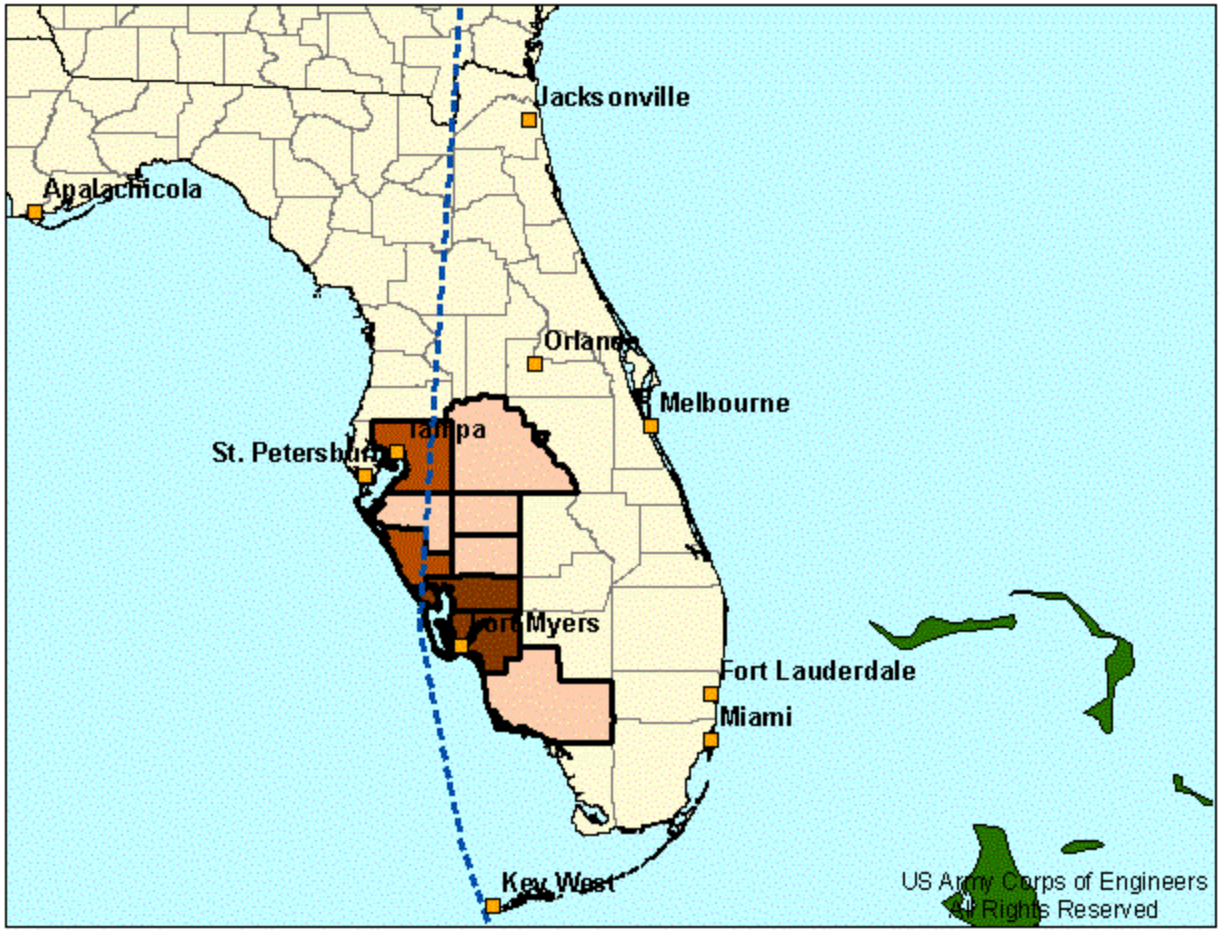
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Households Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

Post Landfall Households Model Results

Florida - 344,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 12 of 18

US Army Corps of Engineers

Hurricane Fay Households Model

Landfall Expected In About 36 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Florida		Charlotte	69,000
		Collier	2,000
		DeSoto	6,000
		Hardee	3,000
		Hillsborough	28,000
		Lee	184,000
		Manatee	4,000
		Polk	< 1,000
		Sarasota	48,000
Florida	344,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Households Model

Generated By:
Siemsen, LRL 0730 EDT 08/18/2008

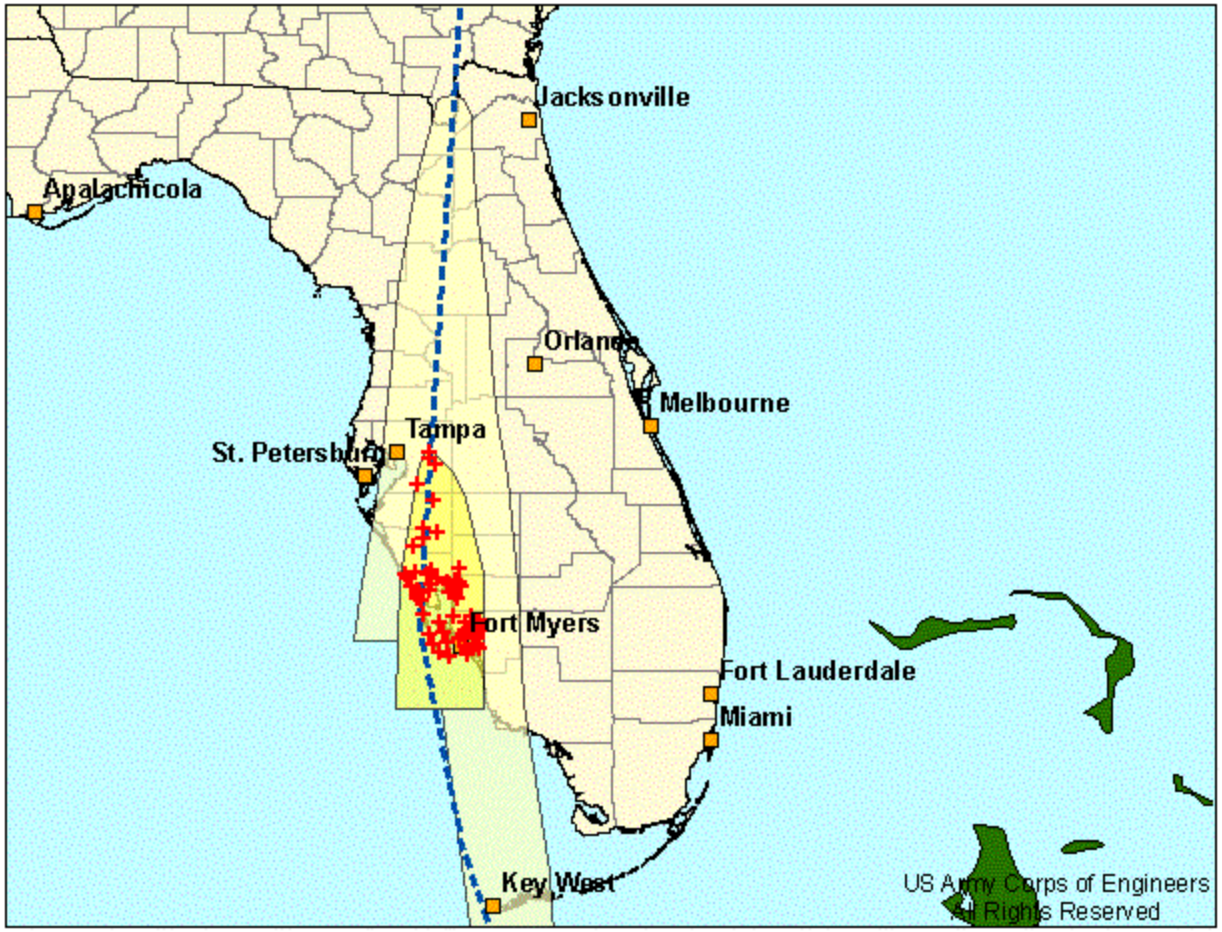
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Fire Stations

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

+ Fire Stations

Forecast Track

Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Florida - 66

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

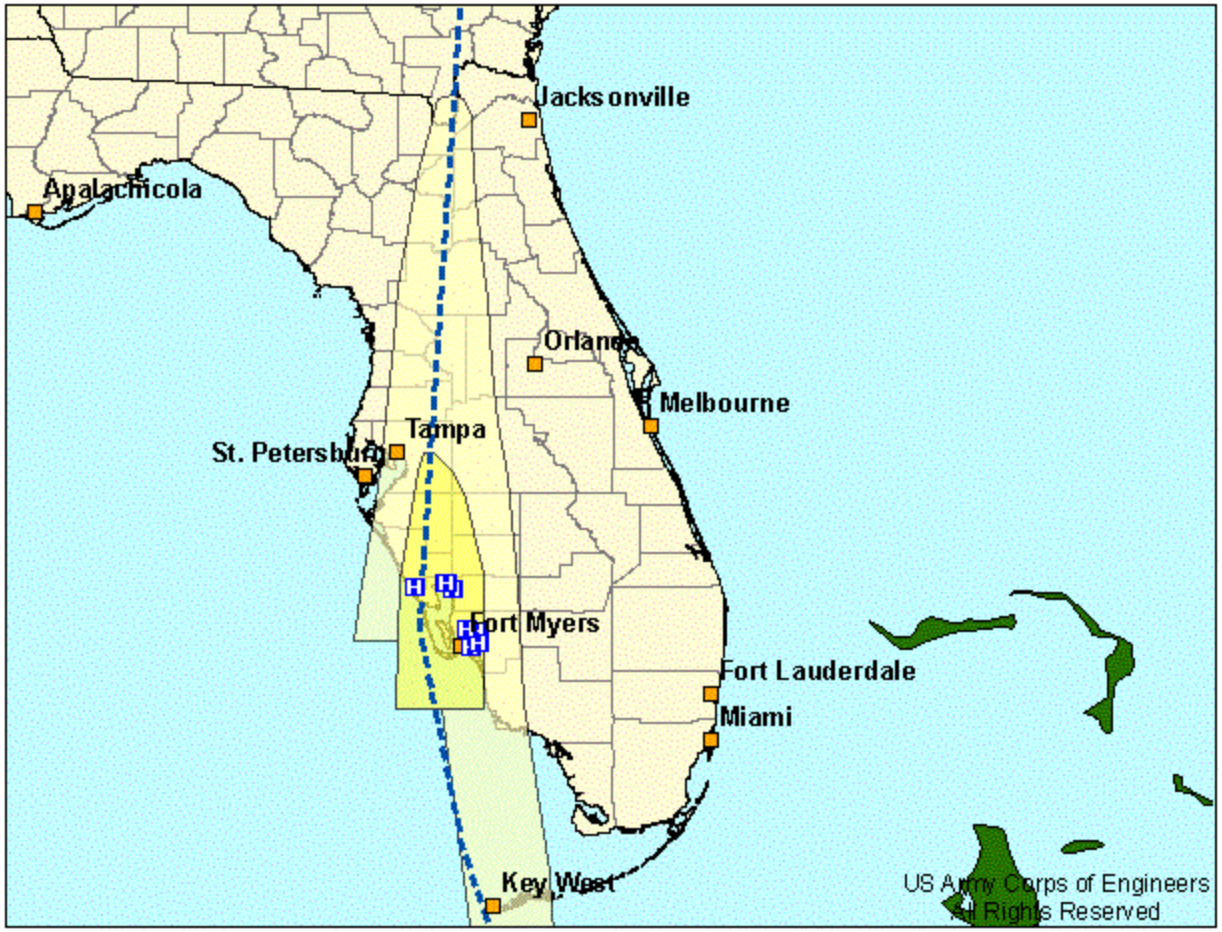
Hurricane Fay Fire Stations	
Generated By: Siemsen, LRL 0730 EDT 08/18/2008	
Sources: HURREVAC LRL-DEBRIS	Page 14 of 18

US Army Corps of Engineers

Hurricane Fay Hospitals

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

Most Probable Landfall Hospitals Inside Hurricane Force Winds

Florida - 9

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Hospitals

Forecast Track

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Hospitals	
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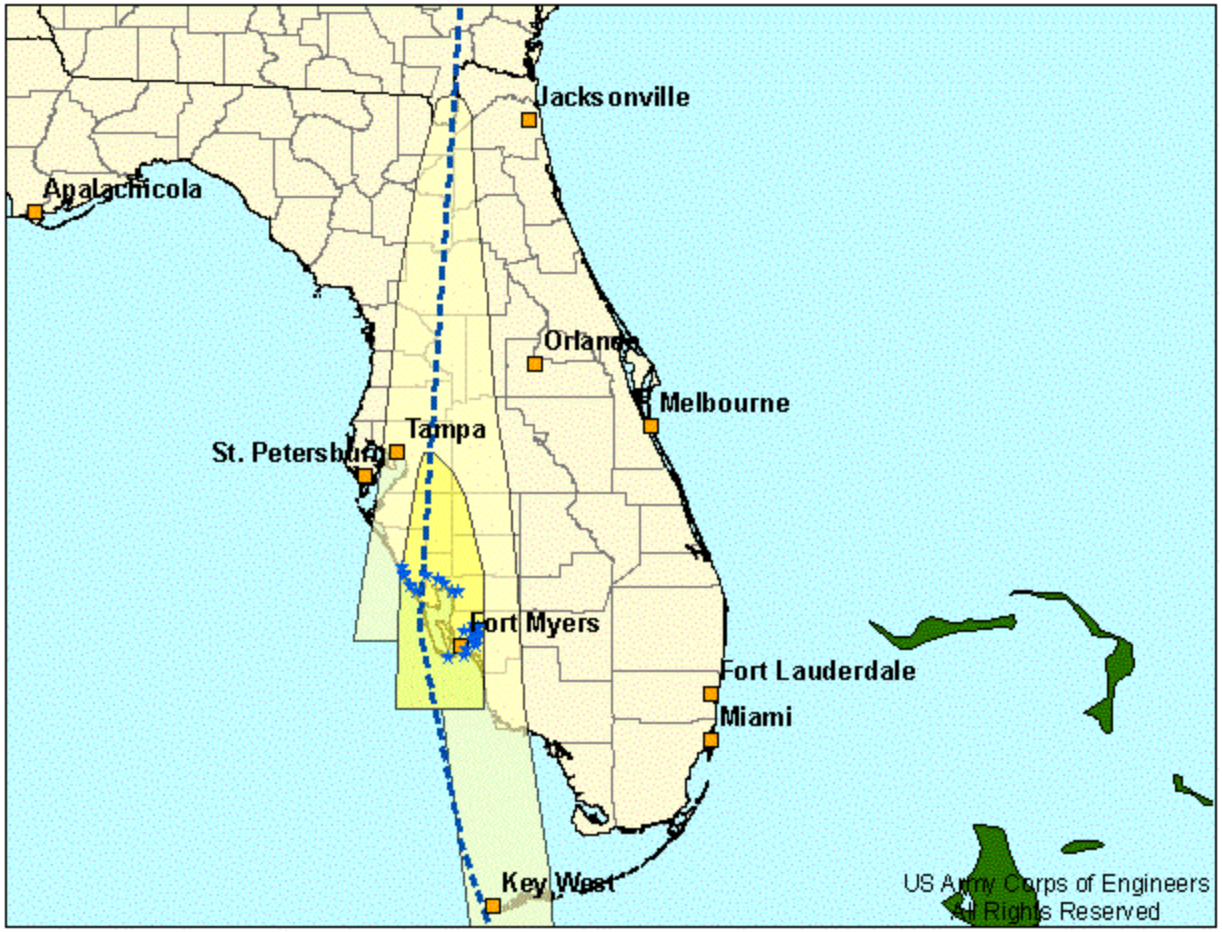
Sources: HURREVAC LRL-DEBRIS	Page 15 of 18

US Army Corps of Engineers

Hurricane Fay Law Enforcement

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

★ Law Enforcement

Forecast Track

Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Florida - 29

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Law Enforcement	
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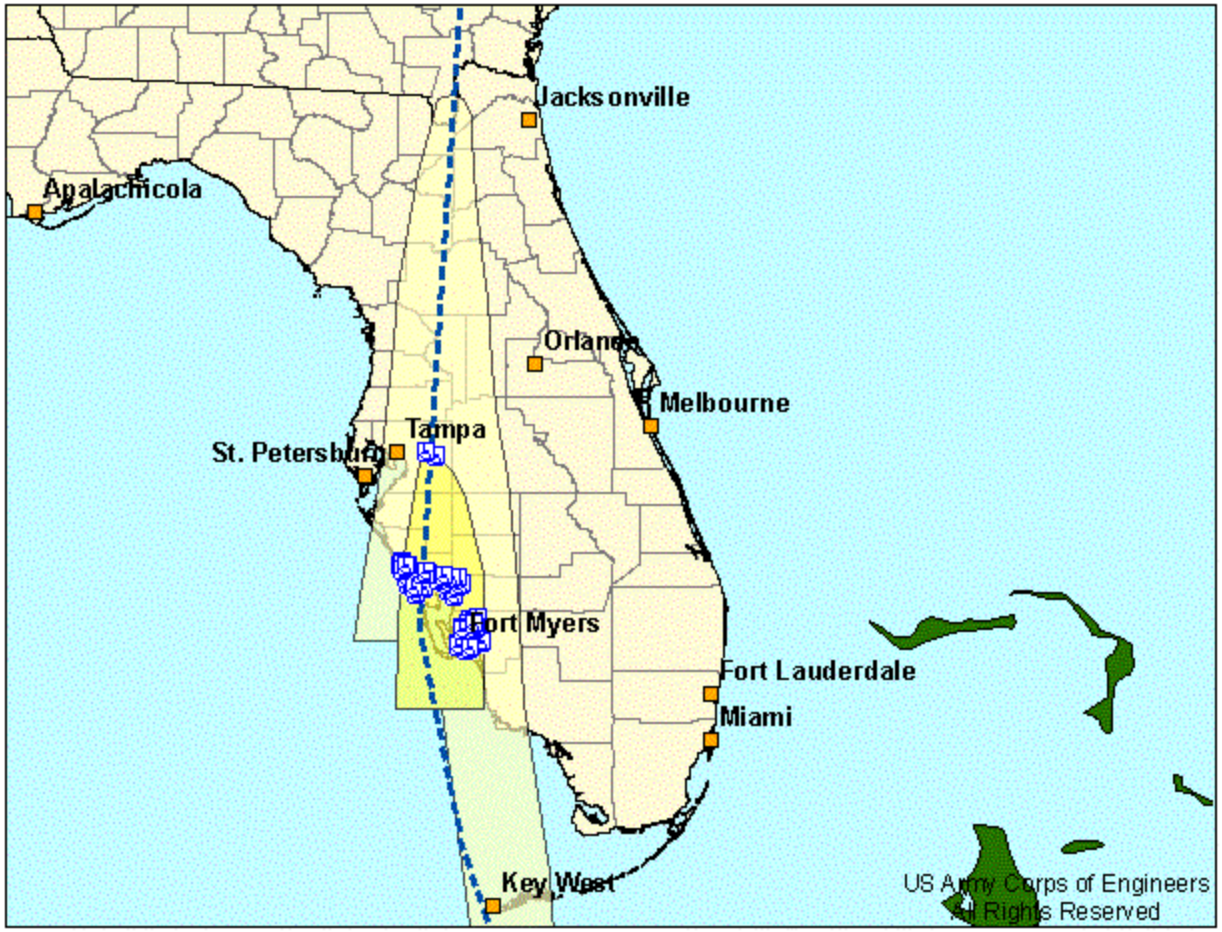
Sources: HURREVAC LRL-DEBRIS	Page 16 of 18

US Army Corps of Engineers

Hurricane Fay Nursing Homes

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

Nursing Homes

Forecast Track

Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Florida - 120

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Nursing Homes	
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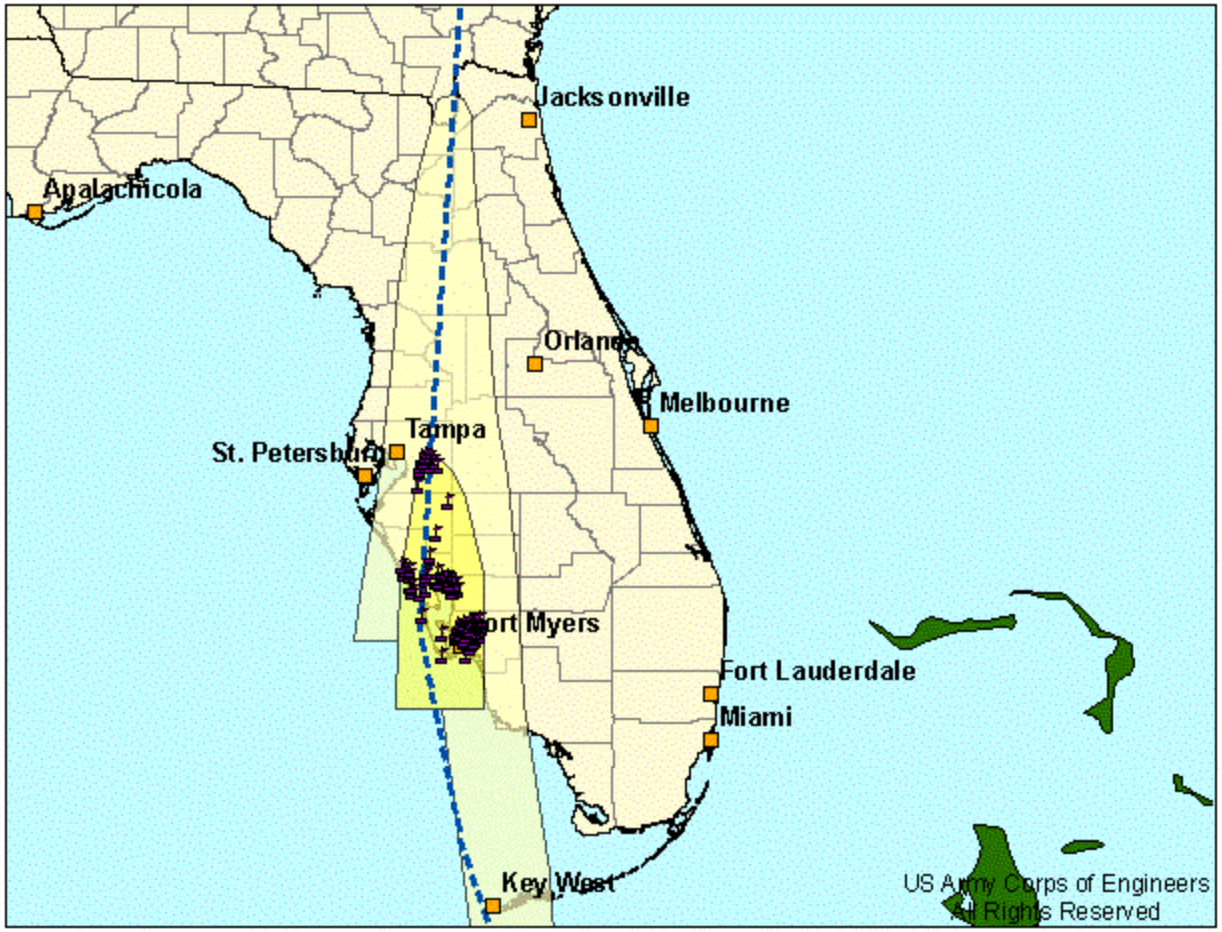
Sources: HURREVAC LRL-DEBRIS	Page 17 of 18

US Army Corps of Engineers

Hurricane Fay Schools

Landfall Expected In About 36 Hours

For Planning Purposes Only!



0 200 400 Miles

Schools

Forecast Track

Most Probable Landfall Schools Inside Hurricane Force Winds

Florida - 151

Model results per County on following page

This model is based on a Category 1 storm making landfall near Port Charlotte, FL.

Information provided on this page displays a Category 1 storm making landfall near Port Charlotte, FL. These projections are based on information from the NHC (0700 EDT 08/18/2008) forecast.

The number of schools included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Schools	
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Sources: HURREVAC LRL-DEBRIS	Page 18 of 18